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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

RECEIVED

Applicants: David C. Ward et al.

APR 22 1993

Serial No.: 07/841,910

Group Art Unit: 1803

GROUP 181

Filed: February 26, 1992

Exam'r: L. Eric Crane, Ph.D

18X  
4/23/93

For:

**MODIFIED NUCLEOTIDES AND METHODS OF PREPARING  
AND USING SAME**

03  
Cea

Lieberman & Nowak  
292 Madison Avenue  
New York, New York 10017

Honorable Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

**REVOCATION OF POWER OF ATTORNEY OR  
AUTHORIZATION AND APPOINTMENT OF  
NEW ATTORNEYS UNDER 37 C.F.R. §1.36**

Yale University, a non-profit corporation organized under the laws of the State of Connecticut and having offices at 451 College Street, New Haven, Connecticut 06520, is the assignee of the entire interest in the above-identified patent application by virtue of an assignment recorded with the United States Patent and Trademark Office on February 24, 1982 at Reel 3950, Frames 423-427, in connection with a predecessor application, Serial No. 06/225,223,<sup>ol</sup> filed on April 17, 1981. As the assignee, it has reviewed the evidentiary documents and certifies, to the best of its knowledge and belief, that title is in the assignee seeking to take action. Yale University hereby revokes all previous powers and appoints:

Arthur M. Lieberman, Reg. No. 20,042; Keith D. Nowak, Reg. No. 27,367; David A. Kalow, Reg. No. 29,297; Milton Springut, Reg. No. 27,721; John P. Parise, Reg. No. 34,403; John J. Santalone, Reg. No. 32,794; and Ronald C. Fedus, Reg. No. 32,567,

and each of them, all in care of Lieberman & Nowak, 292 Madison Avenue (8th Floor), New York, New York 10017, its attorneys, each with full power of substitution and revocation to prosecute this application, to make alterations and amendments therein, to receive the patent, to transact all business in the Patent and Trademark Office connected therewith and to file any International Applications which are based thereon.

Enz-1 (Div. II)

Assignee  
OK on 4/28

David C. Ward et al.

Serial No. 07/841,910

Filed: February 26, 1992

Page 2 (Revocation of Power of Attorney or Authorization and  
Appointment of New Attorneys Under 37 C.F.R. §1.36)

Please address all communications, and direct all telephone  
calls, regarding this application to:

David A. Kalow, Reg. No. 29,297

Lieberman & Nowak

292 Madison Avenue (8th Floor)

New York, New York 10017

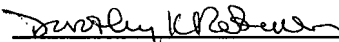
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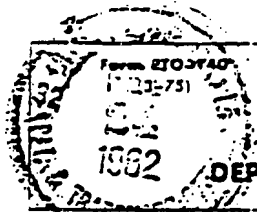
Signed at New Haven, Connecticut  
this 13 day of April 1993

By:



Dorothy K. Robinson, Esq.  
General Counsel and duly  
authorized to sign on  
behalf of Yale University

\* \* \* \* \*



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DESCRIPTION OF ARTICLES OR SERVICES TO BE FURNISHED

ASSIGNMENT FOR RECORDAL:

U.S. Application Serial No. 255,223 filed April 17, 1981

for MODIFIED NUCLEOTIDES AND METHODS OF PREPARING AND USING SAME  
FROM

Inventors: PENNINA R. LANGER, ALEXANDER A. WALDROP III and

DAVID C. WARD

TO: VALE UNIVERSITY

P1261 02/25/82 025523

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P1262 02/25/82 255223

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If additional space is needed attach separate sheet.

*Thomas F. Moran*  
Thomas F. Moran - Reg. No. 16579  
(Signature)

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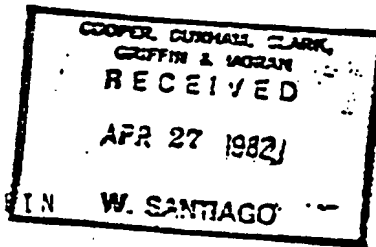
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APRIL 12, 1982



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UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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ASSIGNOR: 001 WARD, DAVID C.  
ASSIGNOR: 002 LANGER, PENNINA R.  
ASSIGNOR: 003 WALDROP, ALEXANDER A. III

DOC DATE: 09/23/81  
DOC DATE: 09/15/81  
DOC DATE: 08/21/81

RECORDATION DATE: 02/24/82 NUMBER OF PAGES 005 REEL/FRAME 3950/0423

DIGEST: ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE: 501 YALE UNIVERSITY NEW HAVEN CT A NON-PROFIT CORP OF NEW HAVEN

SERIAL NUMBER 6-255223 FILING DATE 04/17/81  
PATENT NUMBER ISSUE DATE 00/00/00

TITLE OF INVENTION: MODIFIED NUCLEOTIDES AND METHODS OF PREPARING AND USING SAME

INVENTOR: 001 WARD,  
INVENTOR: 002 LANGER,  
INVENTOR: 003 WALDROP,

A S S I G N M E N T

WHEREAS, we, PENNINA R. LANGER, of Monsey, New York, ALEXANDER A. WALDROP, III, of Charlottesville, Virginia, and DAVID C. WARD, of Guilford, Connecticut, hereinafter referred to as the "Assignor(s)", have jointly invented "MODIFIED NUCLEOTIDES AND METHODS OF PREPARING AND USING SAME" and have jointly filed an application for United States patent based thereon, and so entitled, on the 17th day of April, 1981, Application Serial No. 255,223; and

WHEREAS, the said invention was conceived and first reduced to practice under Yale University auspices, and therefore Yale University, a State of Connecticut non-profit corporation located in New Haven, Connecticut, hereinafter referred to as the "Assignee", desires to acquire the entire right, title and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patents which may be granted thereof, including any and all renewals, reissues, and prolongations thereof.

NOW, THEREFORE, for One Dollar (\$1.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, and pursuant to the terms of Yale University's Patent Policy effective as of April 15, 1981, the Assignors have

jointly and severally agreed to and do hereby jointly and severally sell, assign and transfer unto said Assignee, the entire right, title and interest in and throughout the United States of America, (including its possessions and dependencies) and all countries foreign thereto, in and to said invention, said application and any and all patents (including reissues and extensions thereof), of any country, which have been or may be granted on said invention or any part thereof, or on said application or any divisional, substitute, continuation-in-whole or -in-part, renewal, reissue or other patent application based thereon, or based upon said invention, together with the right in said Assignee to apply for such patent in its own name in all countries of the world where such is permissible by law, and the right to claim the benefit of the priority right provided by the International Convention of 1883, as amended to date, and any other such priority rights.

TO BE HELD AND ENJOYED by said Assignee, its successors and assigns, to the full ends of the respective terms for which said patents or any of them have been or may be granted as fully and entirely as the same would have been held and enjoyed by us and each of us had no sale and assignment of said interest been made;

AND we do hereby authorize and request the Commissioner of Patents of the United States of America to issue any and all

United States patents which may be granted upon said United States applications or any of them, or upon said invention or any part thereof, to said Assignee;

AND each Assignor does hereby agree for him(her)self, and for his/her respective heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any divisional, continuation-in-whole or -in-part, substitute, renewal, reissue, or other applications for patents of any country that might be deemed necessary by said Assignee to fully secure to said Assignee its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them;

AND each Assignor does hereby covenant for him(her)-self and his/her legal representatives and agrees with said Assignee, its successors and assigns, that (s)he has granted no right or license to make, use or sell said invention to anyone except to the extent that (s)he or his/her successors in interest may be obligated to grant and/or have granted a certain license or title rights to the said invention to the Government of the United States of America, acting by and through the National Institutes of Health of the Department of Health and Human Services pursuant to certain grants between the said Government and Yale University, identified as Grants P01-GM20124, T32-CA09159 and T32-GM07499, which require said license and/or

title rights be granted to the Government and said rights shall survive unaffected by the execution and delivery of this assignment, and except to said Assignee, that prior to the execution of this deed his/her right, title and interest in said invention has not been otherwise encumbered, and that (s)he has not executed and will not execute any instrument in conflict herewith.

Executed this 23 day of September, 1981.

X Pennina R. Langer  
PENNINA R. LANGER

*New Jersey*  
STATE OF ~~NEW YORK~~  
COUNTY OF *Essex*

On this 23<sup>rd</sup> day of September, 1981, personally appeared the above-named PENNINA R. LANGER, personally known to me and known by me to be the one who executed the foregoing instrument and subscribed the same in my presence, and acknowledged the same to be her free act and deed, before me.

*Olga Galicic*  
Notary Public

My commission expires: 11/12/83

OLGA GALICIC  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires Nov. 12, 1983



Executed this 15 day of September, 1981.

*Alexander A. Waldrop III*  
ALEXANDER, A. WALDROP, III

STATE OF COMMONWEALTH OF VIRGINIA)

COUNTY OF *Richmond*)

On this 15 day of September, 1981, personally appeared the above-named ALEXANDER A. WALDROP, III, personally known to me and known by me to be the one who executed the foregoing instrument, and subscribed the same in my presence, and acknowledged the same to be his free act and deed, before me.

*Jean M. Shaliday*  
Notary Public

My commission expires: 2/11/84

Executed this 21st day of August, 1981.

*David C. Ward*  
DAVID C. WARD

STATE OF CONNECTICUT)

COUNTY OF NEW HAVEN )

On this day 21, day of August, 1981, personally known to me and known by me to be the one who executed the foregoing instrument, and subscribed the same in my presence, and acknowledged the same to be his free act and deed, before me.

*Dorothy S. Ricker*  
Notary Public

My commission expires:  
My Commission Expires March 31, 1984